Conceptual modeling principles of the STEP Integrated Resources

Rattling the cage!

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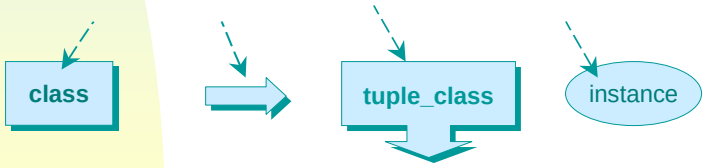
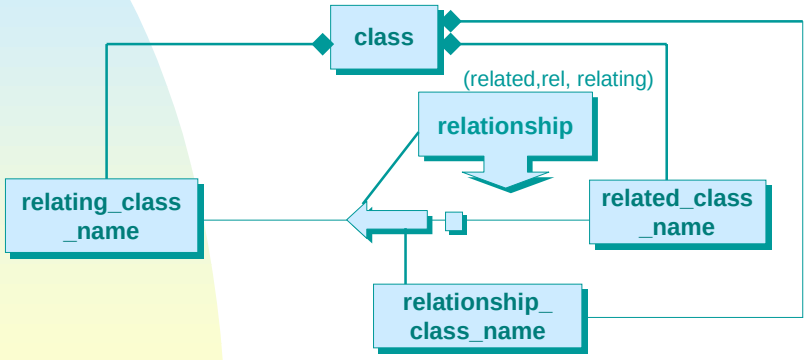
EXpression of Information using Set Theory (EXIST) usage

- EXIST as a class specification language (being developed by ISO TC184/SC4/WG10)
- EXIST as particularly well suited for conceptual modeling as well as instance representations
- EXIST as used here to define classes, tuples, tuple classes, and instances



Modeling relationships

- Relationship between related, relationship, & relating class names



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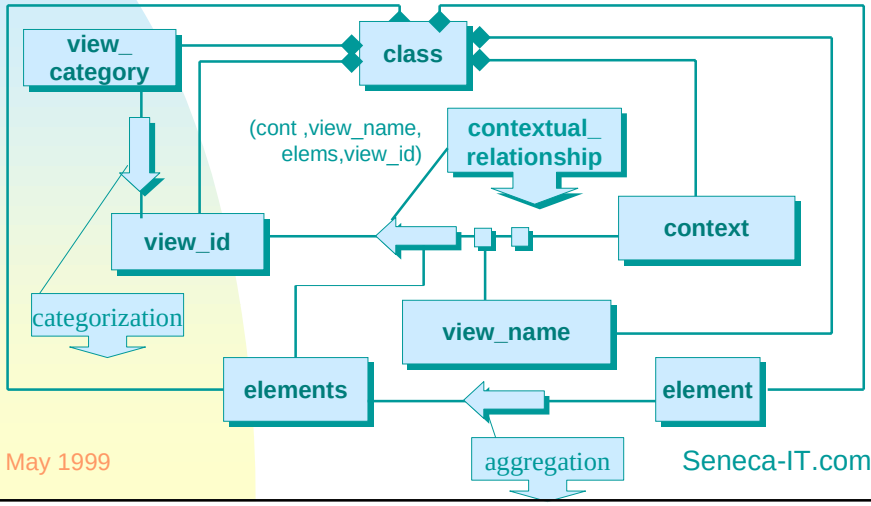
Modeling contextual relationships

- Contextual elationship between cont, vc, elems, and view



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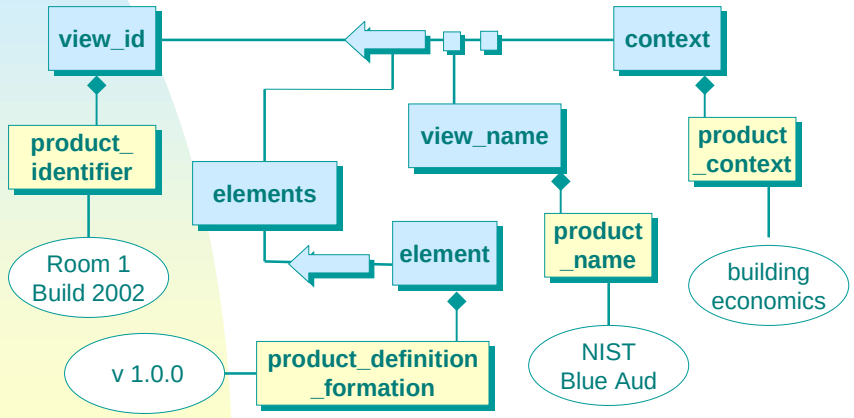
Contextual relationship

- Product_identifier as a subclass of view_id



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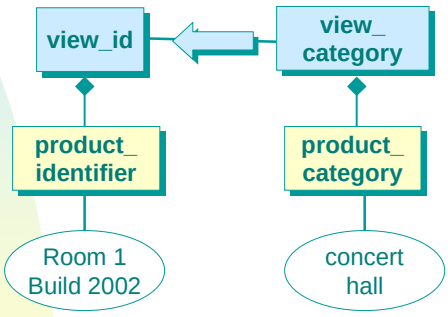
Categorization relationship

- Product_category as a subclass of view_category



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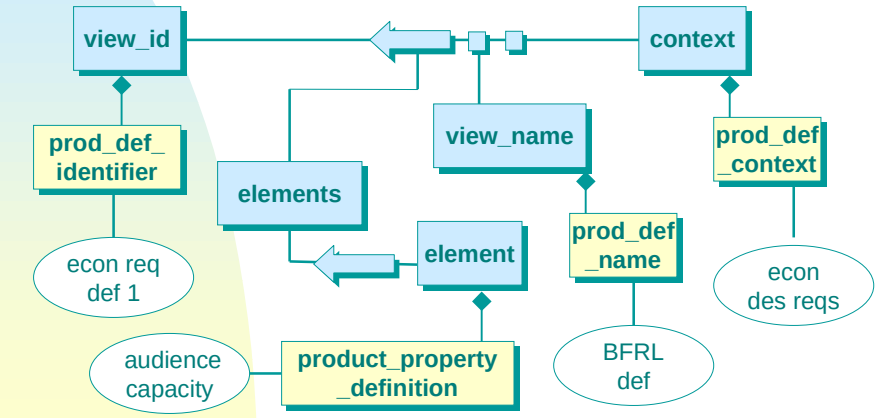
Contextual relationship

- Prod_def_identifier as a subclass of view_id



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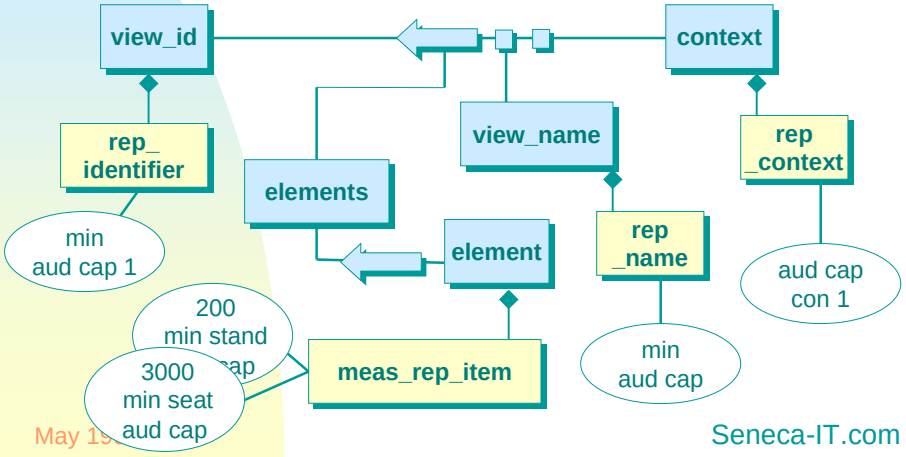
Contextual relationship

- Rep_identifier is a subclass of view_id



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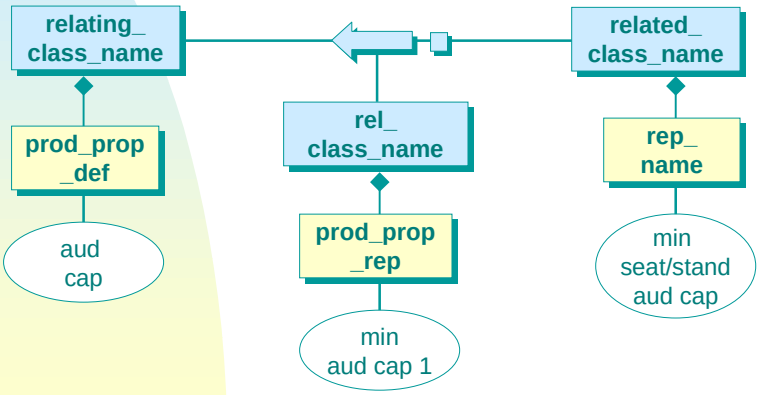
Simple relationship

- Prod_prop_rep is a subclass of rel_id



STEP Integrated Resources:

- **Simple relationship**
  - view category relationship
    - product category
  - product property representation
- **Contextual relationship with aggregation**
  - product
  - product definition
  - representation